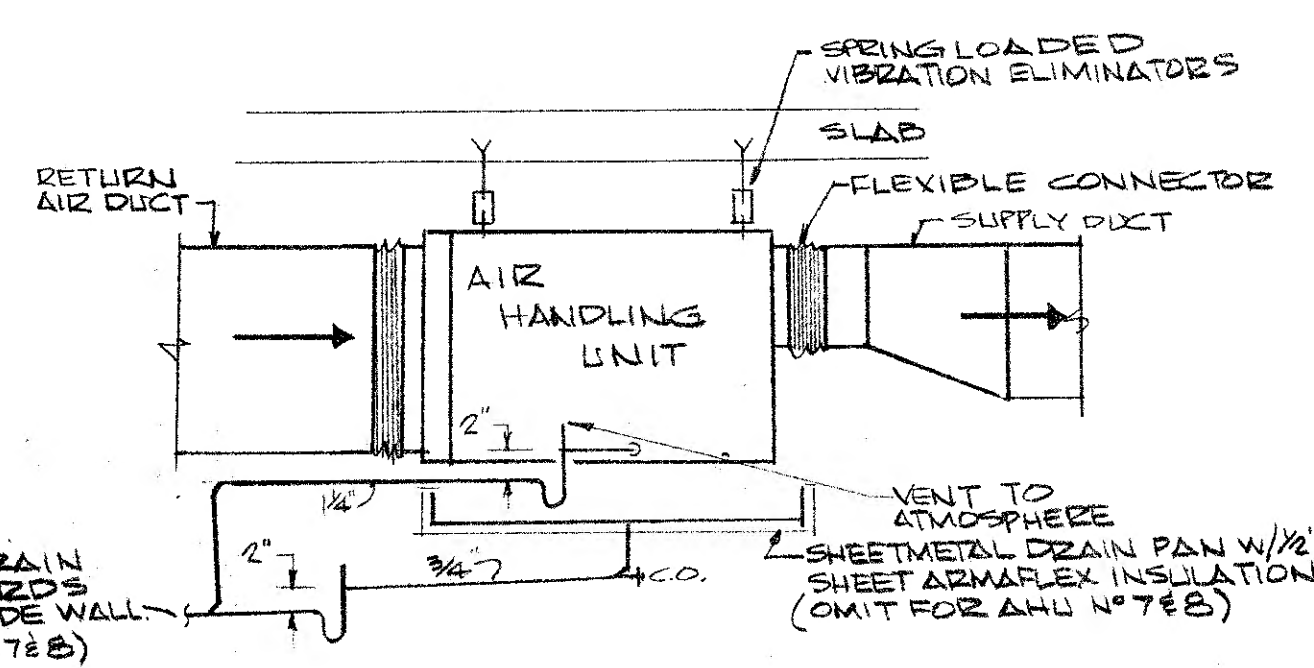
SYMBOL LIST
VOLUME DAMPER
ACOUSTIC LINED DUCT
FLEXIBLE CONNECTOR IN DUCT
AUTOMATIC TEMPERATURE CONTROL/CENTER
S.R. SUPPLY REGISTER
R.G. RETURN GRILLE
R.R. RETURN REGISTER
CONDENSATE DRAIN LINE
SUPPLY REGISTER INSTALLED IN 4" METAL COLLAR
NOTES
1. REFER TO NOTES ON DRAWING Nº AC-6
* DRAIN CONDENSATE LEADERS TO RUN ALONG OUTSIDE WALL AND TERMINATE AT GRADE LEVEL. LEADERS TO BE ANCHORED TO WALL EVERY 6 FT. LEADERS TO BE INSULATED AS SPECIFIED AND PAINTED W/WATERPROOFING PAINT AND A FINISHING EXTERIOR GRADE, OIL BASE PAINT, COLOR AS SELECTED BY ARCHITECT.
ATU Nº9
ATU Nº10
MOUNT ATU's TIGHT TO MEZZ. FLR.
SECOND FLOOR LEVEL
RUN REFRIG. PIPING ABOVE DUCTWORK & TIGHT TO CLG.
REFRIG. PIPING
RUN DUCTS TIGHT TO PIPES.
4-24 x 8 S.R.'s 500 CFM EACH
OPEN STACK MEZZ.
AIR HANDLERS SUSPENDED FROM FLOOR SLAB ABOVE.
48 x 18 R.G.
℄ OF VALANCE (TO MATCH BLINDS)
FICTION
4-24 x 8 S.R.'s 500 CFM EACH
℄ OF VERTICAL CLOTH BLINDS
2-48 x 12 S.R.'s (HIGH)
2-48 x 24 R.R.'s (LOW)
2000 CFM EACH
OFFICE
REFERENCE STACK
72 x 12 R.G.
RUN REFRIG. PIPING TIGHT TO 3RD FLOOR SLAB.
GALLERY
24 x 24 R.G.
2-32 x 8 S.R.'s 750 CFM EACH
PUBLIC CATALOGUE
OPEN WELL
READING ROOM
SIMULATED DUCT ENCLOSURE FOR REFRIG. PIPING (PAINTED AS SPECIFIED.)
REFRIG. PIPING UP IN EXIST. CHASE, TO ROOF MOUNTED AIR COOLED CONDENSING UNIT.
REFERENCE
10-24 x 14 S.R.'s 1000 CFM EACH
TECHNOLOGY ROOM
GALLERY
EXISTING
48x26 S.R. (HIGH)
48x30 R.G. (LOW)
4000 CFM
REFRIG. PIPING.
OPEN STACK MEZZ.
4-24 x 8 S.R.'s 500 CFM EACH
STAFF LOUNGE
TYPICAL VARIABLE VOLUME TERMINAL UNIT
RUN REFRIG. PIPING ABOVE DUCTWORK
WOMEN'S STAFF TOILET
48 x 108 R.G.
26x26 SUPPLY HEADER
RUN REFRIG. PIPING ABOVE DUCT TO AHU Nº1
REFRIG. PIPE UP TO ACCU Nº1 ON ROOF. PIPES PENETRATION THRU WINDOW OPNG. TO BE MADE WATER-TIGHT.
36x26 SUPPLY & 48x22 RETURN DUCTS UP TO AHU Nº8 ON ROOF.
6-32 x 8 S.R.'s 700 CFM EACH
MEZZ.
MEZZANINE FLOOR LEVEL
COND. DRAIN FROM AHU'S SPILL INTO SERVICE SINK
SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"
OFFICE
MEN'S PUBLIC TOILET
WOMEN'S PUBLIC TOILET
ATU Nº7
ATU Nº8
SECOND FLOOR LEVEL
ATU Nº4
ATU Nº5
ATU Nº6
MOUNT ATU's TIGHT TO MEZZANINE FLR.
SECOND FLOOR PLAN
RECONSTRUCTION OF THE NEWARK PUBLIC LIBRARY. MAIN BUILDING
5 WASHINGTON ST., NEWARK, N.J.
REVISIONS.
MICHAEL A. TROTTA ARCHITECT
1801 RAVINE DR., FORKED RIVER, N.J.
609/693-3392
REGENTHAL, RUBINSTEIN, INC.
ENGINEERING CONSULTANTS
FANWOOD NEW JERSEY
LICENSE NO.
8017 M.
CERT. NO. C-2948
DATE 4/5/82
SCALE AS NOTED
AC 1 OF 6

NOTES
1. REFER TO NOTES ON DRAWING N° AC-6
PICTURE COLLECTION
ORDER DEPT.
BRANCH & EXT. DEPT.
OFFICE
N. J. COLLECTION.
EXHIBITS
3-24 x 8 S.R.'s 600 CFM EACH
OPEN WELL
GENERAL OFFICE.
GALLERY
6-24 x 14 S.R.'s 1000 CFM EACH
6-24 x 8 S.R.'s 650 CFM EA.
ART DEPT.
3-26 x 10 S.R.'s 700 CFM EACH
27 x 10
SWITCHB'D
OFFICE
ACCOUNTING
DIRECTOR'S OFFICE
OFFICE
OFFICE
OFFICE
96" x 42" R.G.
36x18 SUPPLY HEADER
REFRIG. PIPING UP & DN
36x26 SUPPLY & 48x22 RETURN DN. TO 2ND FLR & UP TO AHU N°8 ON ROOF.
40x20 SUPPLY & 48x28 RETURN UP TO AHU N°7 ON ROOF.
4-32 x 8 S.R.'s 750 CFM EACH
ART STACK
MEZZANINE FLOOR LEVEL
ATU N°1
ATU N°2
ATU N°3
MOUNT ATU's TIGHT TO MEZZANINE FLR.
THIRD FLOOR LEVEL
THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"
THIRD FLOOR PLAN
RECONSTRUCTION OF THE NEWARK PUBLIC LIBRARY MAIN BUILDING
5 WASHINGTON ST., NEWARK, N.J.
REVISIONS
MICHAEL A. TROTTA, ARCHITECT
1801 RAVINE DR., FORKED RIVER, N.J. 08731
609/693-3392
CERT. NO. C-2948
8017 M.
COMM. NO.
DATE 4/5/82
SCALE AS NOTED
AC 2 OF 6
DRWG. NO.
REGENTHAL, RUBINSTEIN, INC.
ENGINEERING CONSULTANTS
FANWOOD NEW JERSEY
LICENSE NO.

REFRIGERANT PIPE SIZES

SYSTEM	TONS	SUCTION	LIQUID
1	10	1 5/8"	7/8"
2	5	1 3/8"	3/4"
3	5	1 3/8"	3/4"
4	5	1 3/8"	5/8"
5	3 1/2	1 1/8"	1/2"
6	5	1 1/8"	5/8"

REFRIGERANT PIPING NOTES

1. REFRIGERANT PIPING TO BE SIZED IN ACCORDANCE WITH UNIT MFR'S. RECOMMENDATIONS AND PIPING INSTALLATION DRAWINGS TO BE SUBMITTED TO ENGINEER FOR APPROVAL.
2. LIQUID LINES CONNECTED TO DX COILS WITH EXPANSION VALVES, SIGHT GLASS/MOISTURE INDICATORS AND FILTER/DRIERS.
3. ALL AHU'S WITH TRAPPED AND VENTED CONDENSATE DRAIN AND SUCTION LINE INSULATED. MOUNT ALL SUSPENDED UNITS AS HIGH AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCE AND CONDENSATE DRAIN PITCH.
4. INSTALL DRIP PANS UNDER EACH UNIT W/3" OVERLAP ON ALL SIDES. PANS 1 1/2" HIGH W/BOTTOM PITCHED TOWARDS CENTER. 3/4" DRAIN FITTING AT PAN CENTER TO BE CONNECTED TO COOLING COIL CONDENSATE DRAIN W/3/4" TRAPPED AND VENTED PIPE. ENTIRE PAN CONSTRUCTION TO BE MADE WATERPROOF AND EXTERNALLY INSULATED W/1/2" ARMAFLEX INSULATION.
5. ALL REFRIGERANT PIPING SHALL BE SUPPORTED WITH VIBRATION ABSORBERS. SYSTEMS Nº 7 & 8 PIPING AS INDICATED ON DETAILS. PIPING RUNNING OVER DUCTS SHALL BE INDEPENDANTLY SUPPORTED FROM SLAB ABOVE.

PARTIAL ROOF PLAN & DETAILS

RECONSTRUCTION OF THE NEWARK PUBLIC LIBRARY MAIN BUILDING

5 WASHINGTON ST., NEWARK, N.J.

REVISIONS

MICHAEL A. TROTTA
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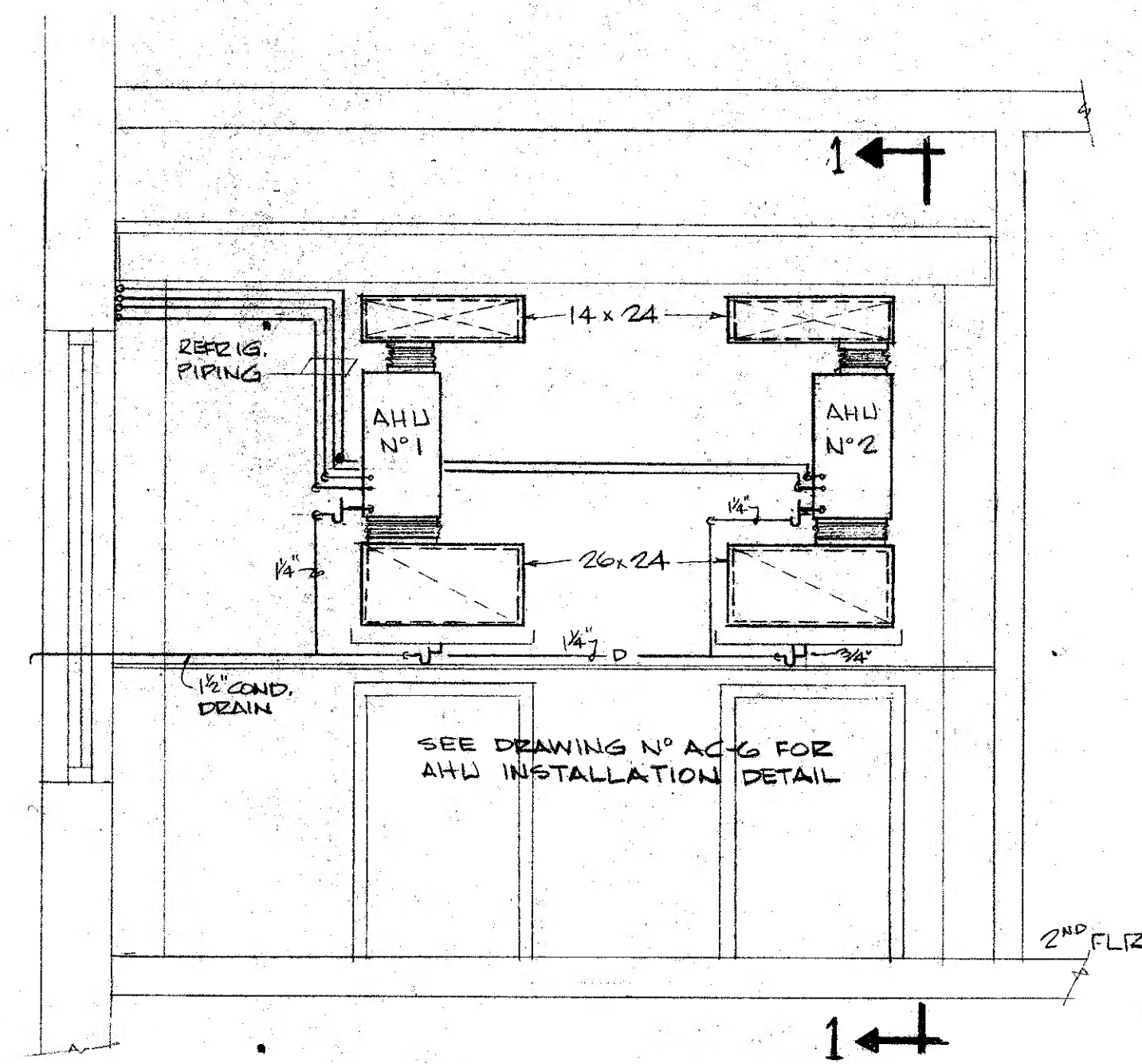
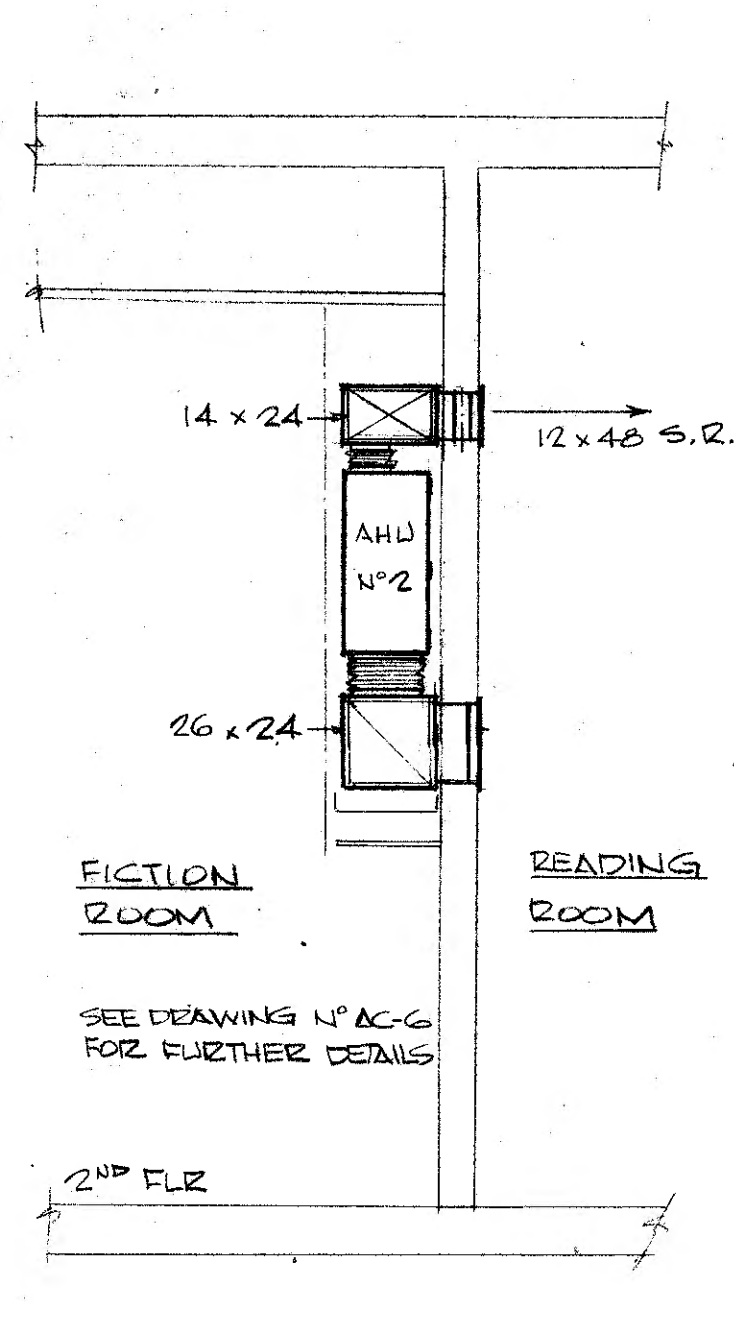
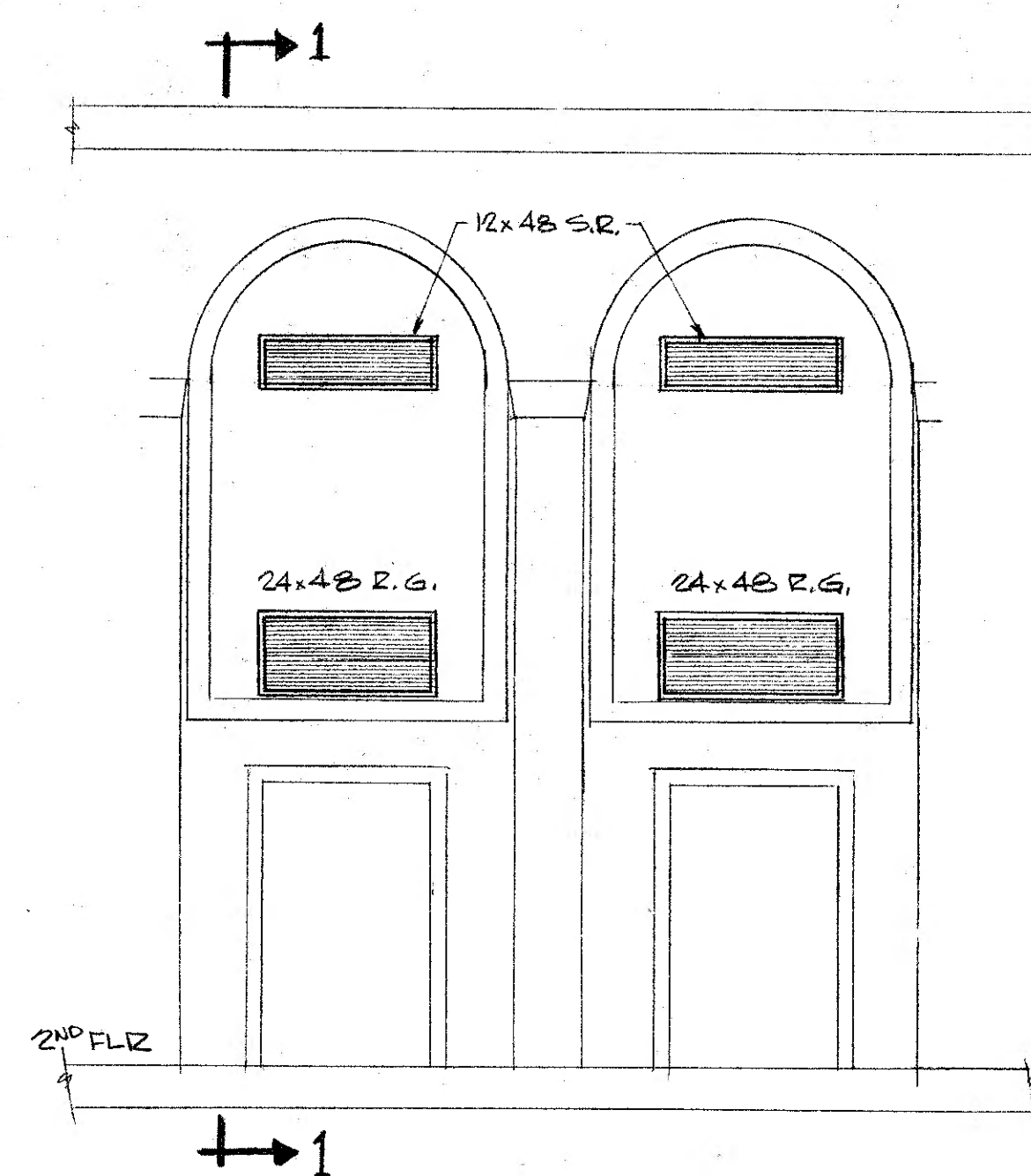
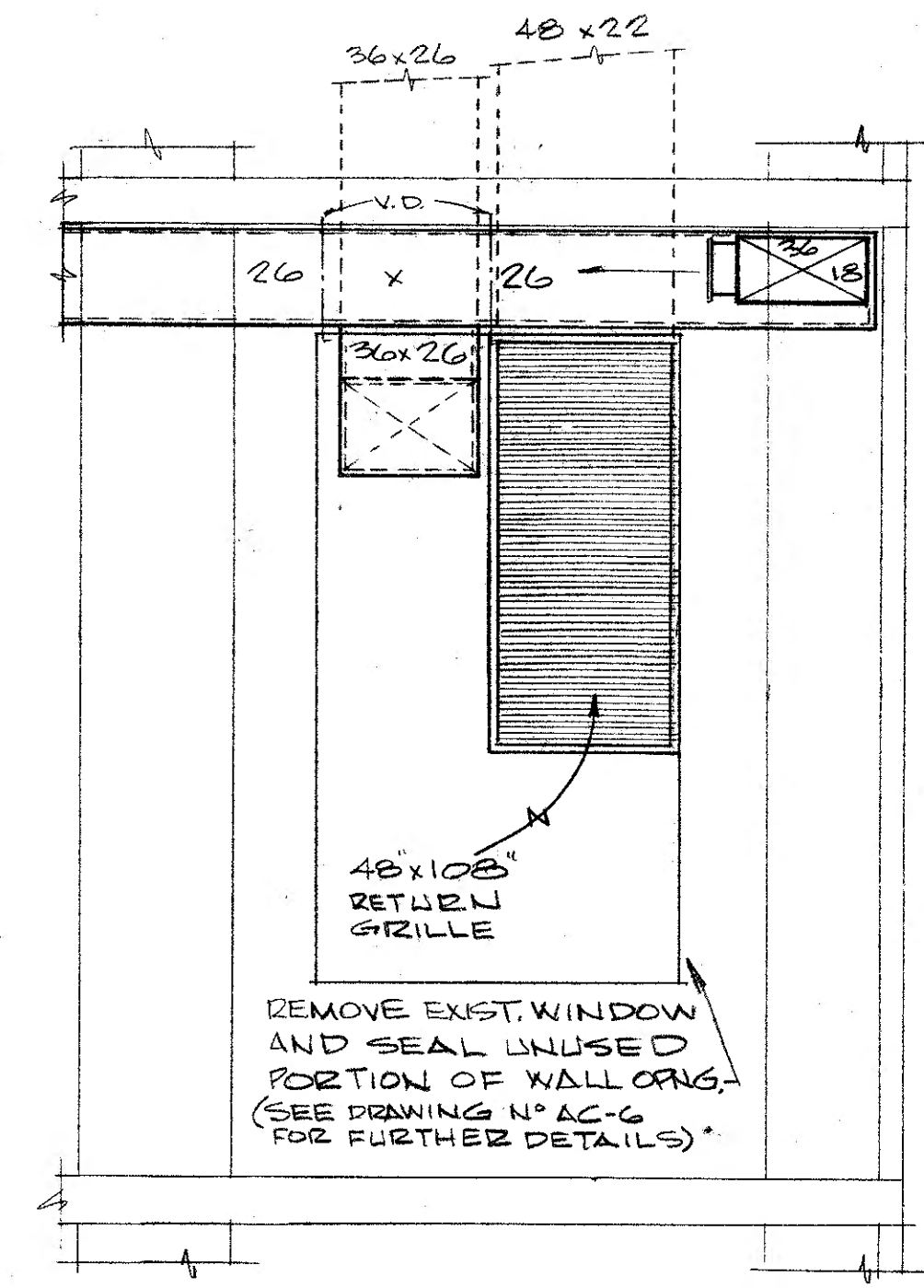
REGENTHAL, RUBINSTEIN, INC.
ENGINEERING CONSULTANTS
FANWOOD NEW JERSEY
LICENSE NO.

8017 M. COMM. NO.

DATE 4/5/82 SCALE: AS NOTED

AC/3 OF 6 DRWG. NO.

TRAP N°	L	W	H	"A"	N° OF CELLS	CFM
1	60"	48"	22"	6"	4	14,580
2	84"	36"	26"	6"	3	16,200
3	60"	48"	28"	6"	4	15,120
4	84"	40"	20"	6"	3	16,800

EQUIPMENT SCHEDULE

ITEM	MFR.	MODEL	DESCRIPTION	ACCESSORIES	ELECT'L. DATA	WEIGHT	DIMENSIONS
AHU N° 1 PHASE 1	CARRIER CORP.	40RR012	VERTICAL AIR HANDLING UNIT, 4000 CFM SUPPLY AIR, NOMINAL 10 TONS COOLING AT ARI CONDITIONS	1. THROWAWAY FILTERS 2. VARIABLE FAN DRIVE 3. FULLY SUPPORTING SPRING TYPE VIBRATION ELIMINATOR RAILS AS MFRD. BY VIBRATION ELIMINATOR CORP.	208V-3Φ-60CY 2HP FAN MTR	500LBS	5'-2 1/2"W x 2'-1 5/8"D x 4'-3 3/8"H.
AHU N° 2,3,4,6 PHASE 1 (2,3,4) PHASE 2 (6)	CARRIER CORP.	40FS220	VERTICAL/HORIZONTONAL AIR HANDLING UNIT, 2000 CFM SUPPLY AIR, NOMINAL 5 TONS COOLING, @ARI COND. COOLING COIL: 28VQ/28HQ060	1. SEE PLANS FOR MOUNTING REQUIREMENTS. 2. THROWAWAY FILTERS. 3. HORIZONTAL UNITS INSTALLED WITH VIBRATION ELIMINATOR CORP. SPRING TYPE ISOLATION HANGERS.	208V-1Φ-60CY 1HP PSC MTR.	125LBS	3'-10 7/16"L x 2'-0 7/16"W x 1'-10 7/16"D
AHU N° 5 PHASE 2	CARRIER CORP.	40FS 200	HORIZONTAL AIR HANDLING UNIT, 1500 CFM SUPPLY AIR, NOMINAL 3.5 TONS COOLING COOLING COIL: 28HQ048 @A.R.I CONDITIONS	SAME AS AHU N°2	208V-1Φ-60CY 1/2HP PSC MTR	105LBS	3'-9 5/8"L x 1'-9 3/16"W x 1'-10 7/16"D.
AHU N° 7 PHASE 3	McQUAY CORP.	RDS-804-B	HORIZONTAL, ROOF MTD., AIR HANDLING UNIT 16,800 CFM, 4 1/2" TSP, 1450RPM, COOLING CAPACITY-527.7 MBH, 77.5°F. EDB, 64°F EWB, 56°F. LDB, 55°F. LWB, 47°S.T. 37.6 SQ.FT. COIL FACE AREA, 1680 CFM MIN. O.A.	1. AIR FOIL SUPPLY FAN W/INLET GUIDE VANES 2. DX COOLING COIL, 6ROW, 8FINS/INCH 3. R.A. PLENUM W/30% O.A. HOOD 4. THROWAWAY FILTERS, ANGULAR SECTION 5. COMPLETELY INSULATED AND WEATHERPROOFED CABINET, CASING AND FRAME. 6. VARIABLE FAN DRIVE 7. VIBRATION ELIMINATORS, SEE SPECIFICATIONS 8. "DWYER", INDUSTRIAL GRADE, FILTER PRESSURE DIFFERENTIAL SWITCH	208V-3Φ-60CY 20HP FAN MTR	4100 LBS	13'-10"L x 7'-10"W x 7'-0"H.
AHU N° 8 PHASE 2	McQUAY CORP.	RDS-804-B	HORIZONTAL, ROOF MTD, AIR HANDLING UNIT 16,200 CFM, 4 3/8" TSP, 1400 RPM, COOLING CAPACITY-488.5MBH, 77.5°F. EDB 64°F. EWB, 56°F. LDB, 55°F. LWB, 42°S.T. 37.6 SQ.FT. COIL FACE AREA, 1620 CFM MIN. O.A.	SAME AS AHU N° 7 EXCEPT DX COOLING COIL = 5ROW, 8FINS/INCH	208V-3Φ-60CY 20HP FAN MTR	4100 LBS	13'-10"L x 7'-10"W x 7'-0"H.
ACCU N° 1 PHASE 1	CARRIER CORP.	38BA009	AIR COOLED CONDENSING UNIT 10 TONS COOLING @ 95°AMB. EER - 7.7	1. COOLING STAT W/FAN SWITCH 2. VIBRATION ISOLATORS, SEE SPECS. 3. 5 YEAR COMPRESSOR WARRANTY 4. INDOOR FAN RELAY 5. MOTORMASTER CONTROL 6. TIME GUARD	208V-3Φ-60CY COMPR.- 39.6 RLA & 170 LRA COND.- 3.6 FLA	600LBS	3'-3 3/8"L x 3'-8 1/8"W x 2'-9"H.
ACCU N° 2,3,4,6 PHASE 1 (2,3,4) PHASE 2 (6)	CARRIER CORP.	38CB060	AIR COOLED CONDENSING UNIT 5 TONS COOLING @ 95°AMB, EER-6.6	SAME AS ACCU N°1	208V-3Φ-60CY COMPR.- 24.0RLA COND.- 2.0RLA	200LBS	2'-10 1/4"L x 1'-10"W x 2'-0 1/8"H
ACCU N° 5 PHASE 2	CARRIER CORP.	38CB042	AIR COOLED CONDENSING UNIT 3.5 TONS COOLING @ 95°AMB EER- 7.0	SAME AS ACCU N°1	208V-3Φ-60CY COMPR.- 16.6 RLA COND.- 2.0 RLA	190LBS	2'-10 1/4"L x 1'-10"W x 2'-0 1/8"H.
ACCU N° 7 PHASE 3	McQUAY CORP.	ALP-046 A	AIR COOLED CONDENSING UNIT 527.7MBH COOLING @ 95° AMB., 11.3 EER	SAME AS ACCU N°1 PLUS 7. DUAL REFRIGERANT CIRCUITS 8. PART WINDING START ON COMPRESSORS 9. TIME DELAY BETWEEN COMPRESSORS N°1 & 2 OPERATION. 10. FOUR STAGE CAPACITY REDUCTION 11. PUMP DOWN CYCLE CONTROL	208V-3Φ-60CY NAMEPLATE AMPS COMPR#1=64 RLA COMPR.#2=80 RLA (4)COND.@5.2RLA ea. LRA (4)COND.@ 40LRA ea PART WINDING START COMPR#1: 188LRA COMPR#2: 250LRA	3550LBS	12'x4"L x 6'-3 3/8"W x 5'-6"H.
ACCU N°8 PHASE 2	McQUAY CORP.	ALP-046A	AIR COOLED CONDENSING UNIT 488.5 MBH COOLING @ 95° AMB., 11.3EER	SAME AS ACCU N°7	208V-3Φ-60CY NAMEPLATE AMPS COMPR.#1=64RLA COMPR.#2=80RLA (4)COND. @ 5.2RLA ea LRA (4)COND.@40LRA ea PART WINDING START COMPR.#1 = 188LRA COMPR.#2=250LRA	3550LBS	12'-4"L x 6'-3 3/8"W x 5'-6"H.

EQUIPMENT SCHEDULE (cont'd.)

ITEM	MFR	MODEL	DESCRIPTION	ACCESSORIES	ELECT'L. DATA	WEIGHT	DIMENSIONS
ATU N° 1 thru 10 PHASE 2 (4 thru 10) PHASE 3 (1,2,3)	McQUAY CORP.	CHF-008A	AIR TRANSFER UNIT, 800 CFM @ 0"SP. (FAN COIL UNIT TO BE USED AS FAN ONLY)	1. PERMANENT SPLIT CAPACITOR MOTOR 2. SOLID STATE SPEED CONTROL 3. VIBRATION ISOLATOR PADS, SEE PLANS FOR INSTALLATION REQUIREMENTS.	115V-1Φ-60CY 1/7HP PSC MOTOR		62"L. x 25 W. x 9"H.
2-1 PHASE 2	TEMPMASTER CORP.	TYPE S SIZE 6000	LOW PRESSURE V.A.V. UNIT. 6000 CFM @ .26" STATIC PRESS. (WIDE OPEN), 27 NC @ MIN. ACTUAL-6000 CFM	1. MODEL TR 24V DAMPER OPERATOR 2. ROOM T'STAT. 3. MANUAL INLET DAMPER W/LOCKING QUADRANT	24V.	122 LBS	36"L x 36"W x 18"H 20" OVAL INLET
2-2 PHASE 2	TEMPMASTER CORP.	TYPE S SIZE 4000	LOW PRESSURE V.A.V. UNIT, 4000 CFM @ .19" STATIC PRESSURE (WIDE OPEN), 22 NC @ MIN. ACTUAL-4000 CFM	SAME AS #2-1	24V	72 LBS	36"L x 27"W x 18"H 18" OVAL INLET
2-3 2-4 PHASE 2	TEMPMASTER CORP.	TYPE S SIZE 2000	LOW PRESSURE V.A.V. UNIT, 2000 CFM @ .18" STATIC PRESSURE (WIDE OPEN), 19 NC @ MIN. ACTUAL-2100 CFM	SAME AS #2-1	24V.	34 LBS	24"L x 27"W x 10"H. 14" OVAL INLET
2-5 PHASE 2	TEMPMASTER CORP.	TYPE S SIZE 2000	LOW PRESSURE V.A.V. UNIT, 2000 CFM @ .18" STATIC PRESSURE (WIDE OPEN), 19 NC @ MIN. ACTUAL-2000 CFM	SAME AS #2-1	24V.	34 LBS	24"L x 27"W x 10"H 14" OVAL INLET
3-1 3-2 PHASE 3	TEMPMASTER CORP.	TYPE S SIZE 6000	LOW PRESSURE V.A.V. UNIT, 6000 CFM @ .26" STATIC PRESSURE (WIDE OPEN), 27 NC @ MIN. ACTUAL-6000 CFM	SAME AS #2-1	24V.	122LBS	36"L x 36"W x 18"H 20" OVAL INLET
3-3 3-4 PHASE 3	TEMPMASTER CORP.	TYPE S SIZE 1600	LOW PRESSURE V.A.V. UNIT, 1600 CFM @ .15" STATIC PRESSURE (WIDE OPEN), 20 NC @ MIN. ACTUAL-1500 CFM	SAME AS #2-1	24V.	28LBS	24"L x 22"W x 10"H 12" OVAL INLET
3-5 PHASE 3	TEMPMASTER CORP.	TYPE S SIZE 2000	LOW PRESSURE V.A.V. UNIT, 2000 CFM @ .18" STATIC PRESSURE (WIDE OPEN), 19 NC @ MIN. ACTUAL-1800 CFM	SAME AS #2-1	24V.	34LBS.	24"L x 27"W x 10"H. 14" OVAL INLET

EQUIPMENT SCHEDULE

RECONSTRUCTION OF THE NEWARK PUBLIC LIBRARY MAIN BUILDING
5 WASHINGTON ST., NEWARK, N.J.

REVISIONS

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ARCHITECT
1801 RAVINE DR, FORKED RIVER, N.J. 08731
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REGENTHAL, RUBINSTEIN, INC.
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FANWOOD NEW JERSEY
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8017 M.
COMM. NO.
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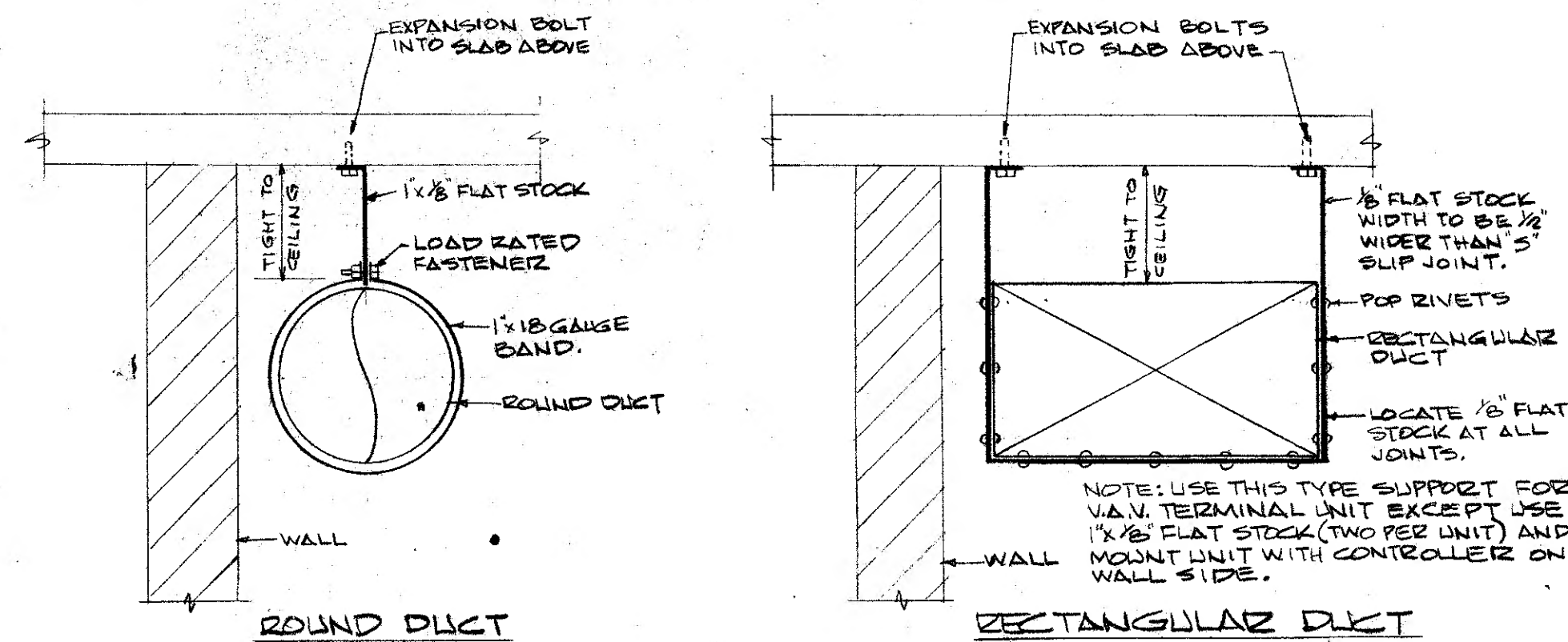
SCALE: AS NOTED
AC 5 OF 6
DRWG. NO.

ROUND DUCT | RECTANGULAR DUCT

SHEETMETAL DUCT SUPPORT DETAILS

not to scale

NO STIFFENERS REQUIRED IF FOLLOWING GAUGES ARE ADHERED TO:

ROUND DUCT	GAUGE	RECTANGULAR DUCT	GAUGE
3"-8"	30	UP TO 12"	28
9"-14"	26	13" - 14"	24
15"-26"	24	15" - 18"	22
27"-36"	22	19" - 20"	20
37"-50"	20	21" - 26"	18
51"-60"	18	27" - 30"	16

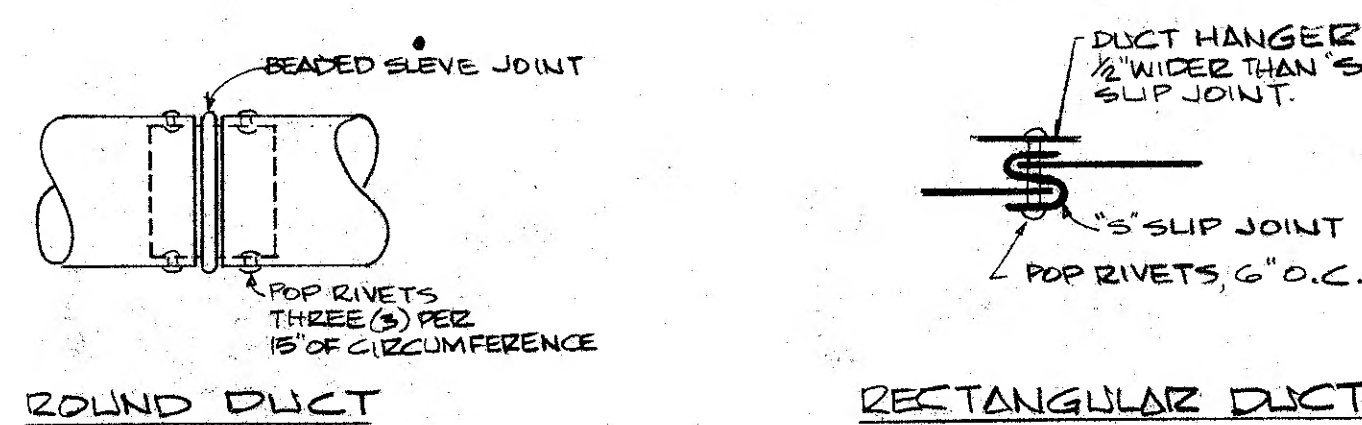
SHEETMETAL CONSTRUCTION GAUGES

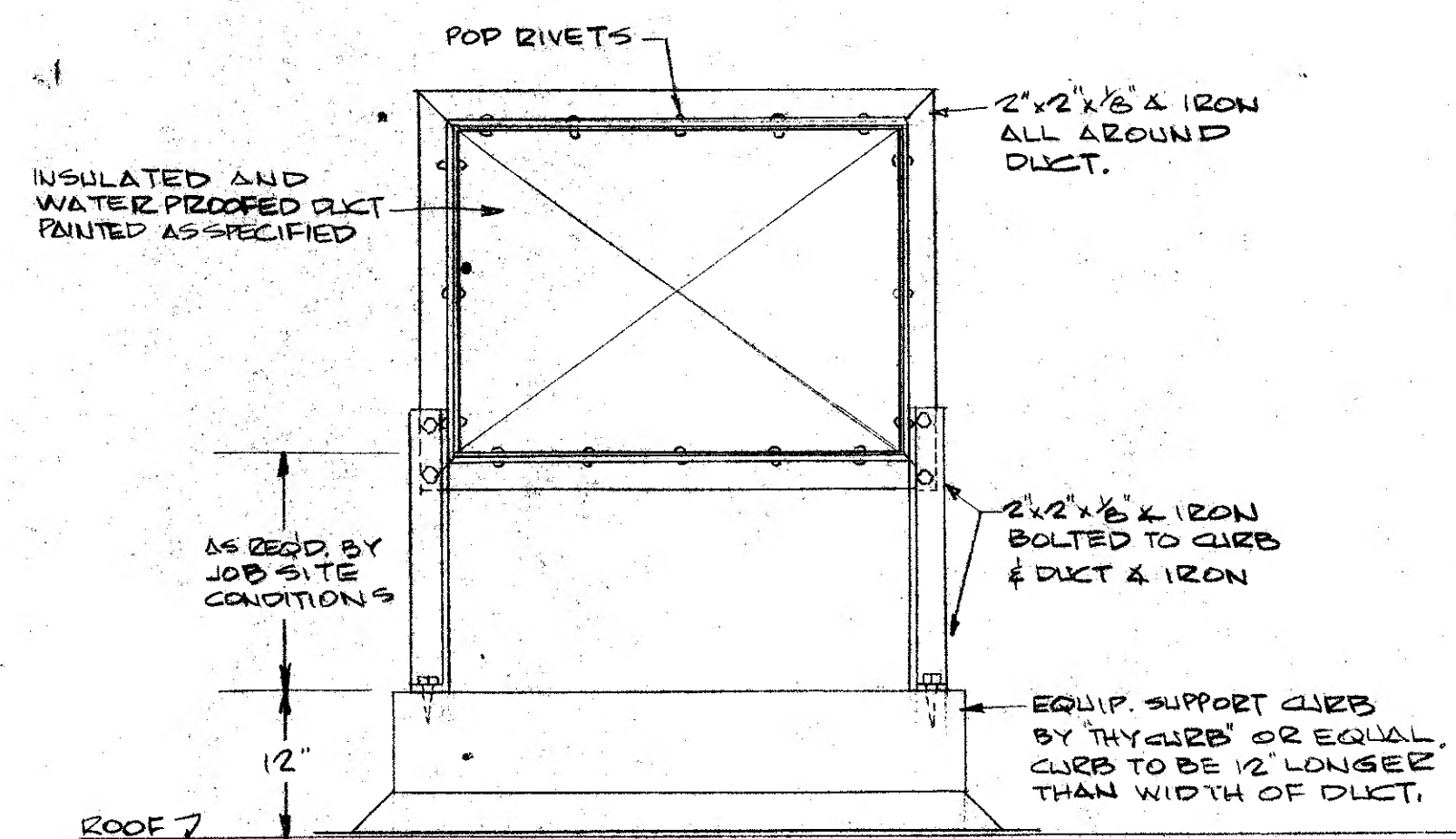
not to scale

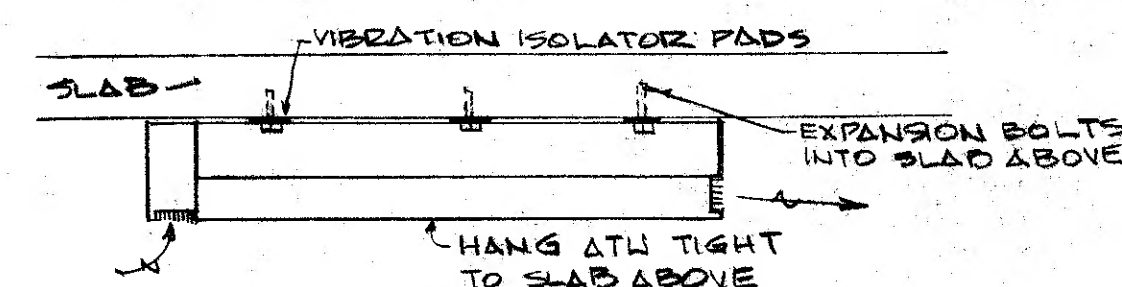
DUCT HANGER 1/2" WIDER THAN "S" SLIP JOINT.

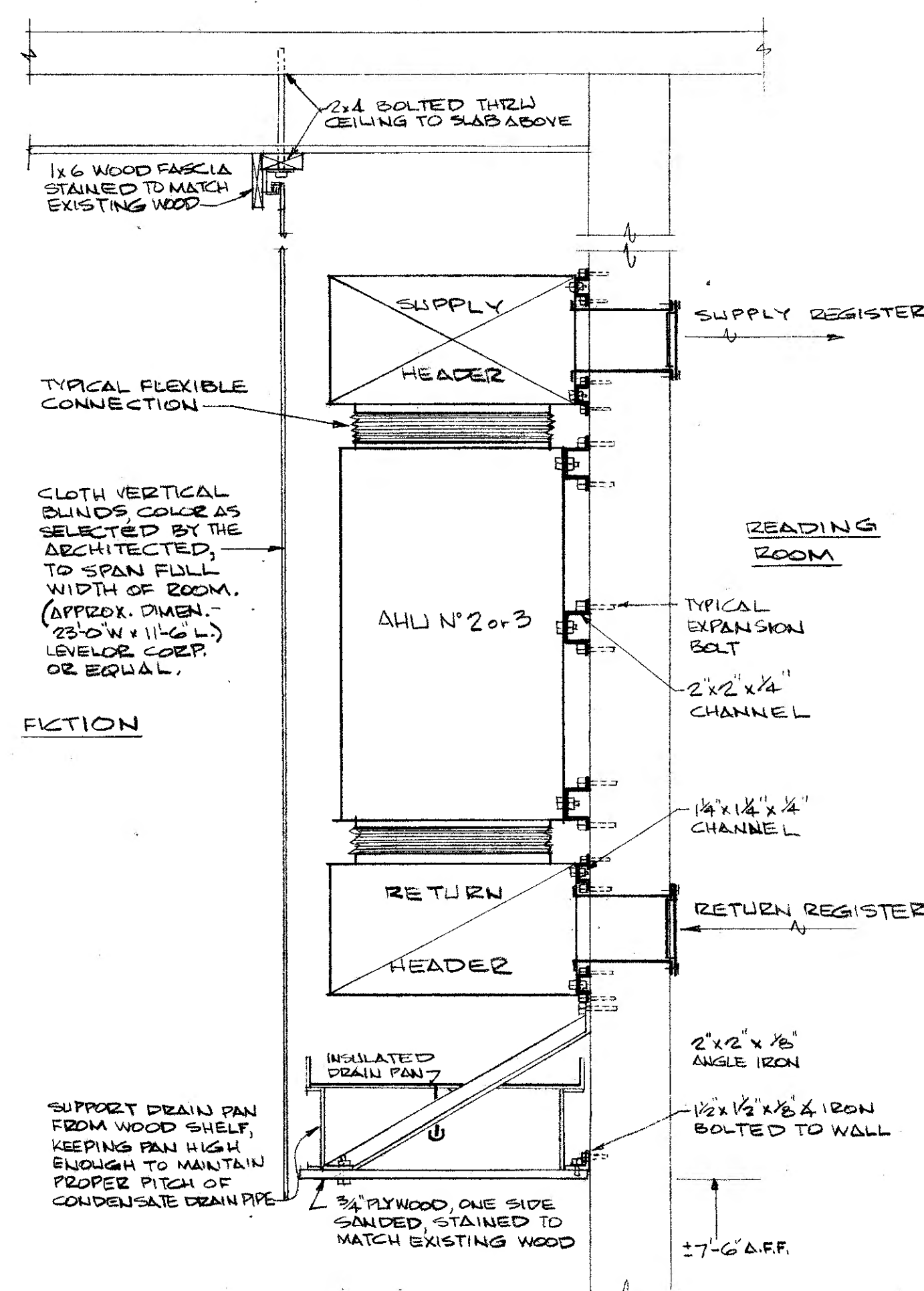
"S" SLIP JOINT

POP RIVETS, 6" O.C.

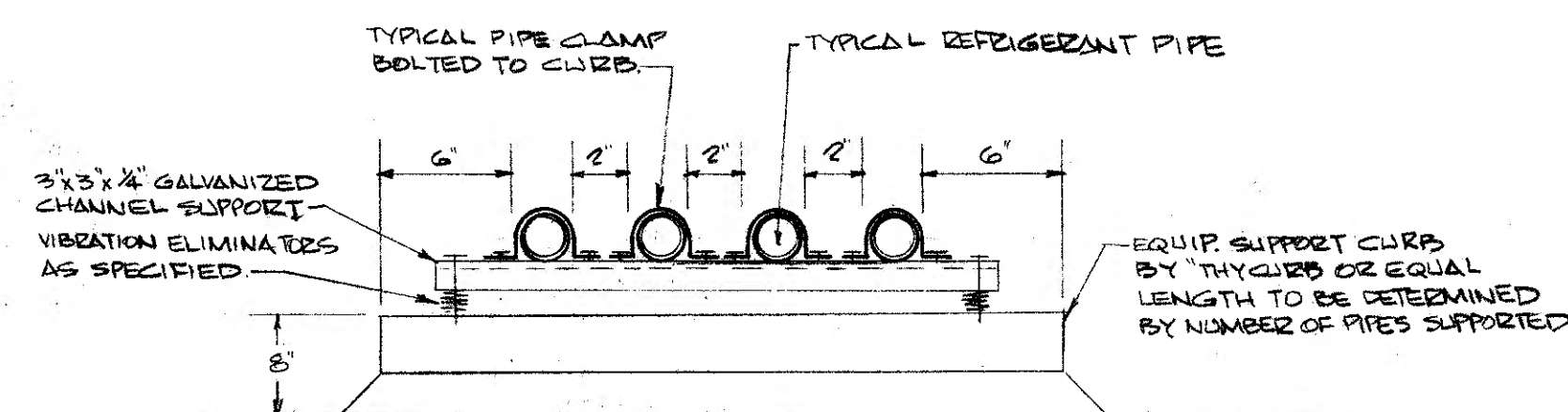
ROUND DUCT | RECTANGULAR DUCT

SHEETMETAL SEAM CONTRUCTION DETAILS

not to scale

INSTALLATION DETAIL of ROOF MOUNTED DUCTS

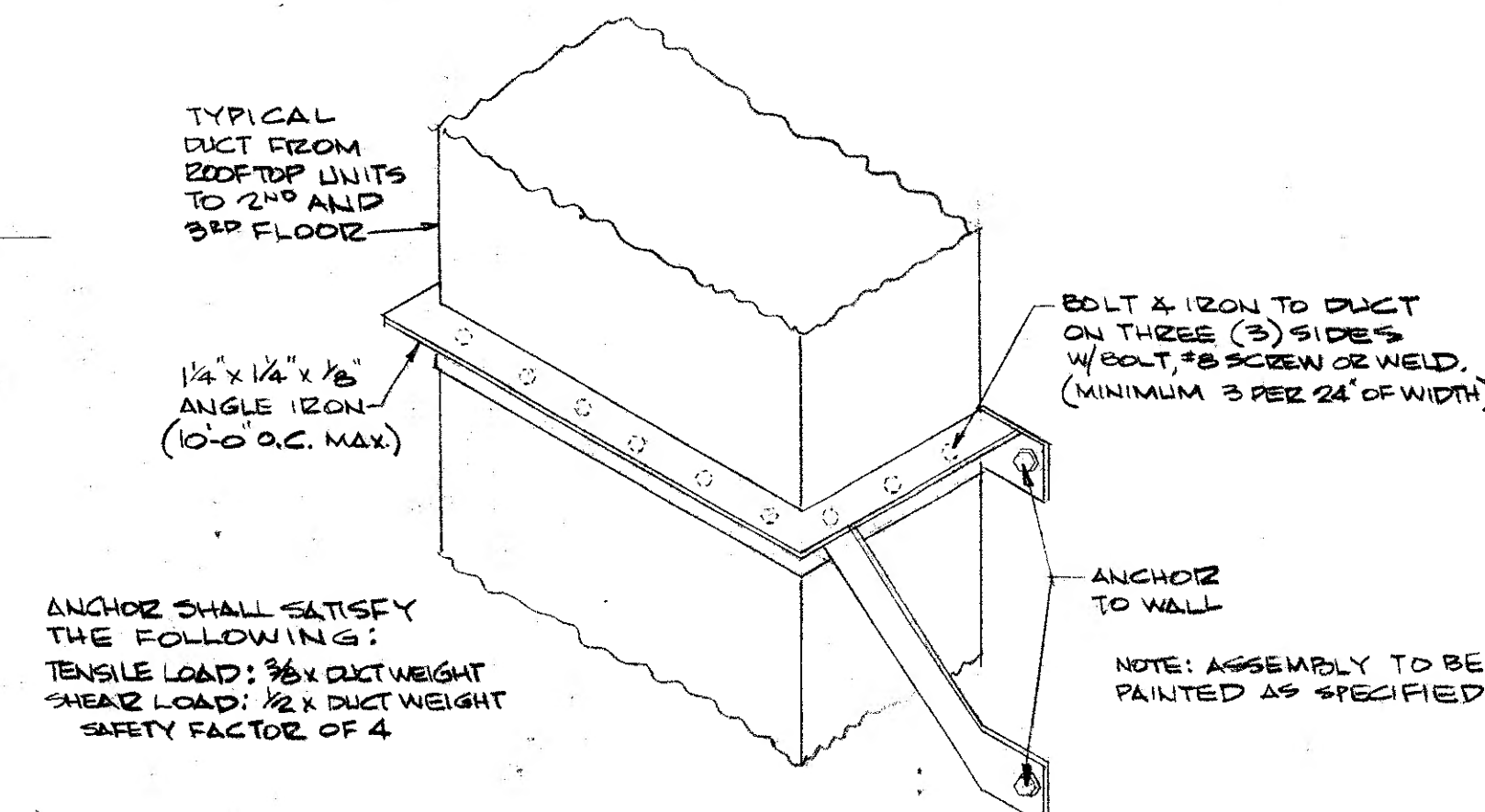
not to scale

TYPICAL INSTALLATION DETAIL of A.T.U.s

not to scale

TYPICAL INSTALLATION DETAIL for AHU N° 2 and 3

not to scale

TYPICAL INSTALLATION DETAIL of ROOFTOP UNIT DUCTS THRU EXISTING WALL OPENINGS

not to scale

INSTALLATION DETAIL of ROOF MOUNTED REFRIGERANT PIPING

not to scale

TYPICAL INSTALLATION DETAIL of DUCT RISER from ROOF DOWN on OUTSIDE of BUILDING WALL

not to scale

GENERAL NOTES for the MECHANICAL CONTRACTOR

1. CONTRACTOR TO SUPPLY AND INSTALL ALL REQUIRED EQUIPMEND AND COMPONENTS AS SPECIFIED OR NECESSARY TO PROVIDE A COMPLETE AND SATISFACTORY JOB.
2. SHOULD THE CONTRACTORS FEEL THAT THERE ARE ANY INADVERTANT OMISSIONS AND VARIANCE WITH THE INTENT OF THIS PROJECT, HE SHALL THEN CALL IT TO THE ATTENTION OF THE ENGINEER, BEFORE PROCEEDING WITH ANY WORK.
3. CONTRACTOR TO VISIT THE JOB SITE AS A PREREQUISITE TO SUBMITTING HIS BID FOR THIS PROJECT. CONTRACTOR TO BECOME ACQUAINTED WITH SITE CONDITIONS, SPECIFICALLY AS THEY APPLY TO THE INSTALLATION OF HIS PART OF THIS PROJECT. NO EXTRA PAYMENTS WILL BE MADE BY THE OWNER, TO CONTRACTOR, TO COMPENSATE FOR SITE CONDITIONS NOT SHOWN ON PLANS.
4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE CODES, RULES AND REGULATIONS OF THE FOLLOWING AUTHORITIES ANY ANY OTHER AUTHORITIES HAVING JURISDICTION: N. J. STATE CODES, OWNER'S INSURANCE CARRIER, NATIONAL FIRE PROTECTION ASSOCIATION AS APPLY FOR THIS PROJECT.
5. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND CERTIFICATES REQUIRED FOR THE INSTALLATION OF HIS PART OF THE CONTRACT.
6. CONTRACTOR SHALL DO ALL CUTTING AND PATCHING, PROVIDE ALL SLEEVES, INSERTS, ETC., IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSTALLATION OF HIS WORK.
7. CONTRACTOR TO COORDINATE HIS WORK WITH OTHER CONTRACTORS SO THERE WILL BE NO INTERFERNCES BETWEEN TRADES.
8. CONTRACTOR TO COORDINATE HIS WORK WITH OWNER SO THERE WILL BE LITTLE OR NO INTERFERENCE WITH THE NORMAL OPERATION OF THE BUILDING.
9. DURING THE PROGRESS OF WORK AND BEFORE FINAL ACCEPTANCE, CONTRACTOR IS TO PERFORM ALL REQUIRED TESTS, TO PROVIDE A DEFECT FREE INSTALLATION AND EQUIPMENT. IF REQUIRED BY THE ENGINEER, ADDITIONAL TESTS WILL BE PERFORMED AT HIS DIRECTION.
10. CONTRACTOR SHALL GUARANTEE ALL MATERIAL, WORK AND EQUIPMENT FOR A PERIOD OF ONE (1) YEAR AND AT NO ADDITIONAL EXPENSE HE SHALL TEST, ADJUST AND REPLACE ANY DEFECTIVE PARTS OF HIS ORIGINALLY INSTALLED SYSTEM.
11. THE DRAWINGS INDICATE THE GENERAL RUNS OF DUCTWORK, PIPES, CONDUIT AND THE LOCATION OF APPARATUS, BUT IT SHALL BE UNDERSTOOD THAT THE RIGHT IS RESERVED BY THE OWNER OR HIS REPRESENTATUES TO CHANGE THE LOCATION OF SUCH WORK TO A REASONABLE EXTENT WITHOUT EXTRA COST TO THE OWNER.
12. ALL SHEETMETAL TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH LATEST SMACNA STANDARDS FOR LOW PRESSURE DUCTWORK.
13. ALL SUPPLY AND RETURN DUCTWORK SHALL BE LINED WITH 1/2" ACOUSTIC INSULATION, AS PER MFR. WRITTEN INSTRUCTIONS IN THEIR INSTALLATION GUIDE.
14. ALL DUCT SEAMS SHALL BE AS INDICATED ON CONSTRUCTED DETAILS OR IN SPECS.
15. ALL DUCTS SHALL HAVE PRIMER COAT OF PAINT, THEN TWO (2) FINISH COATS OF EXTERIOR LATEX PAINT, FLAT FINISH, COLOR AS SELECTED BY ARCHITECT.
16. ALL EXTERIOR DUCTS TO BE INSULATED WITH 2" THICK HARDBOARD FIBERGLASS INSULATION, 4LB. DENSITY, WITH FACTORY APPLIED VAPOR BARRIER. BOARD TO BE IMPALED ON "STIK-KLIPS", 12" O.C. INSULATION TO BE COVERED WITH TROWEL COAT OF "BENJAMIN FOSTER" 90-97, REINFORCED WITH OPEN MESH GLASS FABRIC.
17. CONTRACTOR SHALL INSTALL CONDENSATE DRAIN PIPING FROM ALL A.H.U.s AS NOTED ON DRAWINGS. CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC, PROPERLY SUPPORTED TO PREVENT SAGGING, AS RECOMMENDED BY PIPE MANUFACTURER. ROOFTOP A.H.U.s SHALL HAVE THEIR CONDENSATE DRAINS PIPED TO NEAREST ROOF DRAIN USING SAME MATERIAL AS INDICATED ABOVE.

INSTALLATION NOTES

1. CUT WALL OPENING WITH 1/4" WALL TO DUCT CLEARANCE
2. DRILL AND CUT OPENING WITH FINE TOOTH MASONRY SAW.
3. ALL CHIPS IN WALL, AT OPENING, TO BE COVERED WITH WOOD MOULDING. MOULDING NOT TO EXCEED 2".
4. MOULDING TO BE PRE-PAINTED AND TOUCHED UP AFTER INSTALLATION.
5. SHOULD CHIPS EXTEND BEYOND THE 2" MOULDING, CONTRACTOR IS TO PATCH WALL AND REPAINT ENTIRE ROOM AT NO EXTRA COST.

DUCT PENETRATION DETAIL OF EXISTING WALL

not to scale

DETAILS

RECONSTRUCTION. OF THE. NEWARK. PUBLIC. LIBRARY. MAIN. BUILDING

5 WASHINGTON ST., NEWARK, N.J.

REVISIONS

REGENTHAL, RUBINSTEIN. INC.
ENGINEERING CONSULTANTS
FANWOOD NEW JERSEY
LICENSE NO.

MICHAEL A. TROTTA
ARCHITECT
1801 RAVINE DR., FORKED RIVER, N.J.
609/693-3392
CERT. NO. C-2948

COMM. NO.	DATE	SCALE	DRWG. NO.
8017 M.	4/5/82	AS NOTED	AC 6 OF 6

REGENTHAL, RUBINSTEIN, INC.
ENGINEERING CONSULTANTS
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LICENSE NO. 13766

BASEMENT FLOOR PLAN

RECONSTRUCTION OF THE NEWARK PUBLIC LIBRARY MAIN BUILDING
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8017 M

4/5/82 1/8" = 1'-0"

E1/9

BOOK STACKS.
CHILDREN'S READING RM.
REGIST'N & RECEIV'G RM.
ELEV.
3-#2/0 - PHASE 1
3-#400M - PHASE 3
3-#500M - PHASE 2
4-#6
3-#12
PHASE 1
HALL.
SHIPPING ROOM.
REGIS'TN DESK.
ELEV.
ELEV.
UTILITY RM.
GARAGE
PUBLIC HALL.
VESTIBULE.
EDUCATION DEPT.
PUBLIC TOILETS.
CHECK RM.
CORRIDOR.
CHARGING DESK.
DRILL FLOOR - EXTEND RACEWAY TO PANEL PPA - VIA BASEMENT - PHASE 1
STAFF KIT. & DINING. RM.
STAFF L'KR ROOM.
STAFF LOCKER RM.
OFFICE.
EDUCATION DEPT.
4-#3 - PHASE 2
OFFICE.
YOUNG PEOPLES. READING ROOM.
STAFF TOILETS.
OFFICE.
FIRST FLOOR PLAN
SCALE 1/8"=1'-0"
FIRST FLOOR PLAN
RECONSTRUCTION OF THE NEWARK PUBLIC LIBRARY MAIN BUILDING
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8017
M.
4/5/82
1/8"=1'-0
E2 OF 7
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PICTURE COLLECTION.
BRANCH & EXT. DEPT.
STAFF TOIL.
OFFICE
N. J. COLLECTION.
ELEV.
ORDER DEPT.
GALLERY.
OPEN WELL
EXHIBITS.
GENERAL OFFICE.
GALLERY.
ART. DEPT.
UTILIZE EXISTING SHAFT FOR WIRING TO PNL PPB ON 2ND FL. BREAK OUT OF SHAFT ON DUCT SIDE AND FOLLOW DUCT RUNS FOR RACEWAY ROUTING. CUT, PATCH, AND FINISH AS REQUIRED. PHASE 3
REFER TO NOTES AND SPECIFICATIONS FOR WIRING METHODS PERMISSIBLE
VAULT.
OFFICE.
SWITCHB'D
OFFICE.
ACCOUNT'G
DIRECTOR'S OFFICE.
OFFICE.
TOIL.
OFFICE
TOIL.
ART STACK.
ART STACK MEZZANINE
ATU-1
ATU-2
ATU-3
THIRD FLOOR PLAN
SCALE: 1/8"=1'-0"
THIRD FLOOR PLAN
RECONSTRUCTION OF THE NEWARK PUBLIC LIBRARY MAIN BUILDING
5 WASHINGTON ST., NEWARK, N.J.
REVISIONS.
MICHAEL A. TROTTA
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1801 RAVINE DR., FORKED RIVER, N. J.
609/693-3392
CERT. NO. C-2848
8017 M.
DATE 4/5/82
SCALE 1/8"=1'-0"
REGENTHAL, RUBINSTEIN, INC.
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FANWOOD NEW JERSEY
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FOURTH FLOOR & ROOF PLAN.

RECONSTRUCTION. OF THE NEWARK. PUBLIC. LIBRARY. MAIN. BUILDING

5 WASHINGTON. ST., NEWARK, N. J.

REVISIONS.

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ARCHITECT
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8017 M.

4/5/82 1/8"=1'-0"

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PHASE 1
PHASE 2
PHASE 3
ROOF
4TH FL.
3RD FL.
2ND FL.
1ST FL.
BASM'T.
DISC. SWS SHALL BE HD TYPE RATED & FUSED AS SHOWN AND SHALL BE 3P-250V-W.P.
CODE SIZED-W.P. JUNC. BOX-AT SHAFT
PROVIDE CABLE STRAIN RELIEF - ALL CASES
TYPICAL RUN FOR ATU. UNDER PHASE 3 CONNECT ATU 1 THRU 3. TOTAL OF 3
TYPICAL RUN FOR ATU. UNDER PHASE 2 CONNECT ATU-4 THRU 10. TOTAL OF 7
UNDER PHASE 2 - POWER PANEL PPB SHALL BE INSTALLED COMPLETE WITH CKT. BRK'RS FOR PHASE 3
EXISTING PANEL PPB - INSTALLED UNDER PHASE 2 COMPLETE WITH PHASE 3 CKT. BRK'RS.
EXISTING PANEL PPC - INSTALLED UNDER PHASE 2 COMPLETE WITH PHASE 3 CKT. BRK'RS.
NEW - 3000A BUS DUCT FROM VAULT
EXISTING MAIN DIST. BD
REVISED MAIN DIST. BD.
REFER TO DETAILED DRAWINGS
TAP MAIN BUS OF EXISTING SWITCHBOARD IN 3RD, 4TH, OR 5TH SECTION, TO FEED TROUGH AND CKT. BRK'RS.
NO SCALE
RISER DIAGRAM
RECONSTRUCTION OF THE NEWARK PUBLIC LIBRARY MAIN BUILDING
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AS NOTED.
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